



# 3903

Diag. Ch. No. 8201-2

Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

*E. Lester Jones*

**C. & G. SURVEY  
L. & A.**

State: *S.E. Alaska* NOV 28 1916

**App. No.**

**DESCRIPTIVE REPORT.**

*Hyd.* Sheet No. **3903**

**LOCALITY:**

*Stikine Strait*

*Steamer Point To*

*Wedge Point*

*1916*

**CHIEF OF PARTY:**

*John A. Daniels*

11-4845

# 3903

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3903

State S. E. Alaska

General locality Vicinity of Clarence Strait

Locality Stikine Strait

Chief of party John A. Daniels, Assistant

Surveyed by John A. Daniels, H. R. Bartlett

Date of survey Aug. 7 to Sept. 13, 1916

Scale 1" = 20000'

Soundings in Feet

Plane of reference Mean Lower Low Water

Protracted by V. A. E. Soundings in pencil by V. A. E.

Inked by V. A. E. Verified by H. P. B.

Records accompanying sheet (check those forwarded):

Des. report, ☒ Tide books, ☐ Marigrams, ☒ Boat sheets,

☒ Sounding books, ☒ Wire-drag books, ☐ Photographs.

Data from other sources affecting sheet

Remarks:

DESCRIPTIVE REPORT

To Accompany

STIKINE STRAIT HYDROGRAPHIC SHEET 3903

Temporary No. 2

S. E. A L A S K A

S T I K I N E S T R A I T

From

Steamer Point to Wedge Point

Surveyed under instructions from the Superintendent dated

Feb. 26, 1916

Wire Drag Party No. 3

Season of 1916

By John A. Daniels

Assistant, Coast and Geodetic Survey, Chief of Party

This sheet embraces Stikine Strait from abreast of Light on Steamer Point, northward to about one mile north of South Craig Point. In general the drag was carried to within 1 mile of shore. In case of outlying reefs the distance was greater and in case of bold headlands the distance was much less. Example of former is Reef Point on Woronkofski Island. Examples of latter are South Craig Point and Round Point.

The water in Stikine Strait was generally clear and the only obstructions lie close to shore; one about two miles above Round Point close to Zarembo Island, and the other about one mile north of Reef Point close to Woronkofski Island. Depth of fifty feet was verified except where there are obstructions.

The work was done largely by long drag but was hindered greatly by parting of the drag and strong tidal currents. The currents were irregular and influenced largely by the Stikine River water. At times there was evidence of a strong counter current below the surface, the buoys apparently being towed against the surface tide while the drag was not being towed. This is believed to have caused the drag to part in some cases. At times with the long drag one launch would have a fair tide and the other would have a head tide, making the drag difficult to control.

The weather conditions in Stikine Strait were generally good and on only one occasion was work discontinued for this reason.

Except where especially noted in the records the amount deducted for lift of drag was one foot when the hook up was less than sixty feet and two feet where the hook up was more than this amount.

The signals used in this work were all located in 1916 by Primary triangulation of this party with the exception of Stik and East which were located in 1915 by Wire Drag Party No. 3, and the signals in Chichagof Pass located by Plane Table triangulation in this season. See appended list

The first work was done on July eighth and the last on Sept Thirteenth as shown by accompanying table of statistics.

The smooth sheet plotting was done entirely by Mr. V. A. Endersby D. O. Depth curves of fifty feet or more are only entered for every five feet. Thus: 5+ indicates a depth of 55 feet to 60 feet and 10+ a depth of 60 feet to 65 feet

The shape of the bights was plotted in the field on the Boat Sheets at the beginning and end of the lines and the smooth sheet draftsman was guided by these.

The shore line on this sheet was taken from Topographic sheets C & D of this party except that portion of Zarambo Island north of South Craig Point.

*Respectfully submitted,*

*H. Pal Bartlett,*

*Assistant, C. & S. Survey.*

*Approved.*

*John A Daniels*

*Assistant, Chief of Party.*

# STATISTICS TO ACOMPANY SHEET FOR STIKINE STRAIT

Date	Day	Vol.	Linear	Angles	Sdg.	Sdgs.	Angles
	Letter	No.	Miles		Vol.		
July 8	A	1	5.9	329	-	-	-
31	B	1.	4.1	173	-	-	-
Aug 5	C	1	7.9	299	-	-	-
7	D	1	2.0	97	1	2	4
8	E	1	8.8	309	-	-	-
15	F	1	3.2	236	1	-	-
16	G	1	4.3	155	1	1	3
16	G	2	0.4	15	-	-	-
22	H	2.9	2.9	129	-	-	-
Sept 8	J	2	5.3	344	-	-	-
9	K	2	2.0	102	-	-	-
13	L	2	3.5	147	-	-	-
Total	11	2	50.3	2335	1	3	7

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

# DEPARTMENT OF COMMERCE

## U. S. COAST AND GEODETIC SURVEY

### SIGNALS USED IN STIKINE STRAIT

Hydro. Names	Triang. Names	Descript.	Located By	How Located
Ab	Ab	W. W. Pole	W. D. #3 1916	Plane Table
Ban	Ban	W. W. Pole	W. D. #3 1916	Primary Triangulation
Be	Be	W. W. Pole	W. D. #3 1916	Plane Table
Bear	Bear	W. W. Pole	W. D. #3 1916	Primary Triangulation
Bo	Bo	W. W. Pole	W. D. #3 1916	Primary Triangulation
Chic	Chic	W. W. Pole	W. D. #3 1916	Primary Triangulation
Cliff	Cliff	W. W. Pole	W. D. #3 1916	Primary Triangulation
Cut	Cut	W. W. Pole	W. D. #3 1916	Plane Table
Du	Du	W. W. Pole	W. D. #3 1916	Plane Table
East	East	W. W. Pole	W. D. #3 1916	Secondary Triangulation
Granite	Granite	W. W. Pole	W. D. #3 1916	Primary Triangulation
Har	Har	W. W. Pole	W. D. #3 1916	Primary Triangulation
High	High	W. W. Pole	W. D. #3 1916	Primary Triangulation
Kin	Kin	W. W. Pole	W. D. #3 1916	Primary Triangulation
Kof	Kof	W. W. Pole	W. D. #3 1916	<del>Primary Triangulation</del> Plane Table
N. Base	N. Base	W. W. Pole	W. D. #3 1916	Primary Triangulation
Pit	Pit	W. W. Pole	W. D. #3 1916	Plane Table
Point	Point	W. W. Pole	W. D. #3 1916	Primary Triangulation
Rem	Rem	W. W. Pole	W. D. #3 1916	Primary Triangulation
Round	Round	W. W. Pole	W. D. #3 1916	Primary Triangulation
Sheer	Sheer	W. W. Pole	W. D. #3 1916	Primary Triangulation
Ski	Ski	W. W. Pole	W. D. #3 1916	Primary Triangulation
Stik L.H	Steam	Blinker	W. D. #3 1915	Secondary Triangulation
Tol	Tole	W. W. Pole	W. D. #3 1916	Primary Triangulation
Wedge	Wedge	W. W. Pole	W. D. #3 1916	Primary Triangulation

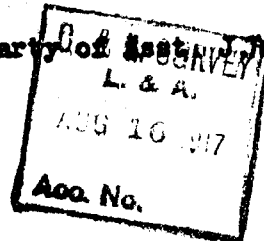
VEC  
Aug. 15, 1917

*Feb 22 1917*  
*B. P. A.*  
*H. C.*

HYDROGRAPHIC SHEET 3903.

Stikine Strait, S.E. Alaska, by party of Asst. L. & A. Daniels in 1916.

FIELD RECORDS (H)  
CHARTS (H)



TIDES.

	Wrangell Feet.	Exchange Cove Feet.
Mean lower low water, or plane of reference on staff	4.6	4.3
Mean range of tide	13.8	12.7

LIBRARY

Place with descriptive report  
of hydrographic sheet No. 3903

*427*  
Drawing Section.



DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 19, 1921.

To: The Chief of the Section of Field Records.  
From: A. L. Shalowitz, Draftsman, C. & G. Survey.  
Subject: Verification of Hydrographic Sheet No. 3903

The records for this sheet were well kept, and were both clear and distinct. The field party, however, neglected to note in each case the beginning and ending of lines. Also in many cases the signals for the angles of the end launch were entered by merely using the name of the first signal. Reference had to be made to back positions to find out the other two. There seems to have been a reluctance on the part of the field party to make full explanatory notes in the record, particularly at critical places. There appears in the record between 26 and 27 J a note to the effect that buoy angles show F covered split. No indication of a split could be found, as this area was well covered on a previous day.

The plotting was in general very carefully executed with the exception of positions 1 to 18 F which were very poorly plotted. It appears that a fifty meter distance for guide launch tow line was used in the plotting. The writer made no change on the smooth sheet as the area is well covered by other strips.

Attention is called to the plotting of soundings 5 and 9 ft. obtained on "D" day. These were shown on the smooth sheet 450 meters to the northward of their ~~true~~ position. The error was evidently caused by using  $18^{\circ}$  instead of  $08^{\circ}$  for the left angle.

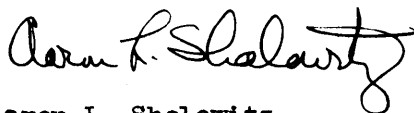
On account of the use of predicted tides for plotting of the smooth sheet, many of the tide curves had to be changed as the predicted tides did not always agree with the actual tides.

Two splits, not shown on the smooth sheet were disclosed in the verification of this sheet. At position 26 E the smooth sheet showed the line carried on for five minutes after position was taken. As there was no reason at this stage of the work for continuing line for five minutes it would appear that this was arbitrarily done by the smooth sheet plotter when a split was discovered, as the smooth sheet shows an expunged line at the position. Moreover the drag might have parted before 12:25, the time noted in the record, but not discovered until then; therefore in verifying, everything past position 26 E was omitted by the writer. If it were the intention of the field party to continue this line an appropriate note should have been made in the record.

At position 18 F the smooth sheet showed the drag work continuing for three minutes past the position. As there is no control for the launches and since no note appears in the record relative to the continuity

2.

of the line, and moreover since the subsequent dragging would develop a split if the three minutes were disregarded, it was thought best to end the line at 18 F in order to be on the side of safety. There is a bare possibility, however, that this area was covered in the movement of the drag from position 15 to 16 F.

A handwritten signature in cursive script, reading "Aaron L. Shalowitz".

Aaron L. Shalowitz,  
Hydrographic & Topographic Draftsman.

ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 9-MEM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
WASHINGTON

SECTION OF FIELD RECORDS

REPORT ON WIRE DRAG SHEET No. 3903.

Surveyed in 1916.

Chief of Party: J. A. Daniels.

Surveyed by J. A. Daniels and H. R. Bartlett. Instructions dated Feb. 26, 1916.

Protracted and inked by V. A. Endersby.

Verified and Area and Depth Sheet by A. L. Shalowitz.

1. There were no specific instructions as to the depth to which this area was dragged, hence it is assumed the Chief of Party acted within his rights in dragging to a minimum effective depth of 45 ft. The extent of the drag work satisfies the specific instructions.
2. No shoals were discovered.
3. The overlaps are ample.
4. There are two small splits on this sheet, but there is a possibility that they were covered in the movement of the drag, so that for all practical purposes it is safe to say that within the geographic limits of this survey no further dragging is required. See verification report, also diagram No. 8200 for limits of the survey.
5. Reviewed by A. L. Shalowitz, June, 1922.